

## Assignment 4

Textbook Assignment: "Rescue and Survival Equipment." Pages 5-1 through 5-22.

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Learning Objective: *Inspect, maintain, and advise aircrew members on the use of rescue equipment and survival items.*

- 4-1. Survival items may be carried which of the following places?
1. Life rafts
  2. Droppable kits
  3. On the aircrewman
  4. All of the above
- 4-2. Which of the following manuals covers survival items?
1. NAVAIR 13-1-6.7
  2. NAVAIR 13-1-6.5
  3. NAVAIR 13-1-6.2
  4. NAVAIR 13-1-6.1
- 4-3. When exposed to water, the sea dye marker will appear as which of the following colors?
1. Orange
  2. Green
  3. Either 1 or 2 above, depending on water temperature
  4. Yellow
- 4-4. How long does it take to exhaust a sea dye marker?
1. 1 hour
  2. 10 to 15 minutes
  3. 20 to 30 minutes
  4. 40 to 50 minutes
- 4-5. The dye marker ceases to be a good target after being dispersed for approximately what period of time?
1. 1 hour
  2. 2 hours
  3. 45 minutes
  4. 30 minutes
- 4-6. How far can the dye marker be seen from an altitude of 3,000 feet?
1. 3 miles
  2. 5 miles
  3. 8 miles
  4. 10 miles
- 4-7. The signaling mirror can produce a light the equivalent of how many candlepower?
1. 6,000,000
  2. 8,000,000
  3. 10,000,000
  4. 11,000,000
- 4-8. On a bright sunny day, the flashes from a signal mirror can be seen from a distance of
1. 10 miles
  2. 20 miles
  3. 40 miles
  4. 50 miles
- 4-9. The Mk 79 Mod 0 signal kit is supplied with what total number of Mk 80 Cartridges?
1. 7
  2. 8
  3. 10
  4. 12
- 4-10. When fired, each cartridge flare has a minimum duration of
1. 4 seconds
  2. 4 1/2 seconds
  3. 5 seconds
  4. 5 1/2 seconds
- 4-11. How many feet will the Md 80, signal flare travel when it is launched?
1. 100
  2. 150
  3. 200
  4. 250

- 4-12. The Mk 13, Mod 0 signal flare will burn for approximately what maximum period of time?
1. 10 seconds
  2. 20 seconds
  3. 30 seconds
  4. 40 seconds
- 4-13. The lot number of the flare should be checked each time the flare is inspected. The lot numbers of flares that are not serviceable can be found in which of the following publications?
1. NAVAIR 13-1-6.5
  2. Cut-rent aircrew equipment bulletins
  3. NAVAIR 11-15-7
  4. Current revisions to the NAVAIR 13-1-6.7
- 4-14. Which of the following distress signals is commonly called a strobe light?
1. SL-5/E
  2. LT-65
  3. SLT-73/E
  4. SDU-5/E
- 4-15. You are required to inspect the SDU-5/E distress light a minimum of how often?
1. Every 30 days
  2. Every 60 days
  3. Every 90 days
  4. Every 120 days
- 4-16. The SDU-5/E distress light is required to flash how many times per minute for a 2-minute duration?
1.  $50 \pm 10$
  2.  $40 \pm 5$
  3.  $30 \pm 10$
  4.  $20 \pm 5$
- 4-17. The SRU-31/P survival kit consists of two parts. What person/activity is responsible for the medical items in packet number one?
1. The squadron supply officer
  2. The local medical department.
  3. The squadron PR
  4. The aircrew member
- 4-18. The eye ointment that is carried in the SRU-31/P survival kit has an expiration date of
1. 7 years
  2. 2 years
  3. 3 years
  4. 5 years
- 4-19. What is the purpose of the rations that are carried by aircrew personnel?
1. To provide subsistence
  2. To alleviate thirst
  3. To provide nourishment
  4. To provide quick energy, only
- 4-20. An emergency drinking water can contains what total amount of water?
1. 6 ounces
  2. 8 ounces
  3. 10 ounces
  4. 12 ounces
- 4-21. The shelf life and the service life of canned water is indefinite, as long as the cans pass what test?
1. Slap test
  2. Leakage test
  3. Pressure test
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- Learning Objective: *Test and maintain survival radios.*
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- 4-22. The AN/PRC-63 radio set has how many modes of operations?
1. One
  2. Two
  3. Three
  4. Four
- 4-23. Which of the following modes of operation is NOT used in the operation of the AN/PRC-63?
1. Beacon
  2. Voice transmission
  3. Voice reception
  4. Automatic SOS

- 4-24. What feature of the AN/PRC-63 radio will let the aircrew member know that his radio is putting out a signal?
1. A beacon confidence tone
  2. A toggle switch
  3. A micro-transceiver
  4. A red light
- 4-25. The AN/PRC-63 radio has a voice communication range of up to approximately what distance?
1. 10 miles
  2. 25 miles
  3. 50 miles
  4. 75 miles
- 4-26. A search aircraft flying at 10,000 feet can locate a transmitting beacon up to approximately what distance?
1. 25 miles
  2. 50 miles
  3. 70 miles
  4. 80 miles
- 4-27. The lanyard attached to the deployment device on the AN/PRC-63 radio must be able to withstand a pull of what minimum amount?
1. 20 pounds
  2. 25 pounds
  3. 50 pounds
  4. 110 pounds
- 4-28. When transmitting on the AN/PRC-63 radio, where should the radio be held?
1. Next to the mouth and at a 43° angle
  2. Two inches from the mouth at a 45° angle
  3. Next to the mouth and upright
  4. One to two inches from the mouth and upright
- 4-29. To increase the receiving sound on your AN/PRC-63, what should you do?
1. Turn the volume control clockwise
  2. Turn the volume counterclockwise
  3. Turn the beacon selector to "loud"
  4. Turn the beacon selector to "loudest"
- 4-30. Which of the following units is used to test the operation of the AN/PRC-63?
1. AN/PRC-63T
  2. AN/PRC-36T
  3. AN/PRC-90
  4. AN/PRM-32
- 4-31. Which of the following publications would you use to find information on the testing procedures for the AN/PRC-90 radio?
1. NAVAIR 13-1-6.5
  2. NAVAIR 13-1-6.7
  3. NAVAIR 16-30PRC90-2
  4. NAVAIR 16-30PRC63-1
- 4-32. What is the shelf/service life of the Mallory battery used in the AN/PRC-63 radio?
1. 36 months from the date of manufacture
  2. 24 months from the date of manufacture
  3. 36 months from the date placed in service
  4. 24 months from the date placed in service
- 4-33. Under ideal conditions, the AN/PRC-90 radio has a maximum voice range of how many nautical miles?
1. 100
  2. 75
  3. 60
  4. 50
- 4-34. The tone (code signal) on the AN/PRC-90 radio has a maximum range of how many nautical miles?
1. 50
  2. 80
  3. 90
  4. 100
- 4-35. The shelf life of a battery is based on storage temperature. What is this temperature?
1. 40°F
  2. 50°F
  3. 60°F
  4. 70°F

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Learning Objective: *Identify specifications and performance capabilities of survival radios.*

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- 4-36. To place the AN/PRC-90 radio on a guard channel beacon operation, you would set the function to
1. MCW-137.0
  2. BCN-243.0
  3. ABC-252.0
  4. CBA-243.0
- 4-37. Which of the following radios is strictly a beacon radio set?
1. AN/PRC-32A
  2. AN/PRC-63
  3. AN/URT-33A
  4. AN/URT-63
- 4-38. What is the storage life of a battery used in the AN/URT-33A?
1. 12 months at 60°F
  2. 18 months at 90°F
  3. 24 months at 70°F
  4. 36 months at 70°F
- 4-39. When the AN/PRT-5 is activated, it will send out signals on which of the following frequencies?
1. 83.64 MHz
  2. 843.6 and 234.0 MHz
  3. 2.430 MHz
  4. 8.364 and 243.0 MHz
- 4-40. At 77°F the battery pack for the AN/PRT-5 is designed to give continuous operation for
1. 48 hours
  2. 60 hours
  3. 72 hours
  4. 96 hours

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Learning Objective: *Identify the construction and characteristics of helicopter rescue equipment such as the survivors sling and the rescue seat.*

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- 4-41. For information on search and rescue procedures at sea you would refer to what publication?
1. OPNAV 4790.2
  2. NAVAIR 80T-101
  3. NWP 19-1
  4. OPNAV 3710.7
- 4-42. A survivor should never touch a rescue device until it has touched the ground or water for what reason?
1. The device must be stopped first
  2. The device has to be grounded to prevent electrical shock
  3. This will ensure the device will not release unexpectedly
  4. The survivor must be sure the helicopter is on the proper wind line
- 4-43. The survivor's sling is constructed with what type filling?
1. Kapok
  2. Styrofoam
  3. Foam rubber
  4. Polyurethane
- 4-44. The survivor's sling is identified by what color(s)?
1. Red
  2. Orange and white
  3. Yellow
  4. Red and white
- 4-45. The rescue sling is designed to carry how many people at one time?
1. One
  2. Two
  3. Three
- 4-46. The calendar inspection on the rescue sling is performed at intervals not to exceed how many days?
1. 60 days
  2. 90 days
  3. 120 days
  4. 225 days

4-47. When testing the survivor's sling on a webbing tester what load is applied to the sling?

1. 300 pounds
2. 500 pounds
3. 600 pounds
4. 1,000 pounds

4-48. The rescue seat has (a) what total number of prongs and (b) the prongs are how many degrees apart?

1. (a) 2 (b) 180°
2. (a) 3 (b) 120°
3. (a) 4 (b) 90°

4-49. If the rescue seat has been immersed in salt watery it must be cleaned with

1. solvent
2. gasoline
3. mild soap and water
4. a special chemical mixture

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Learning Objective: *Identify the operational characteristics of the forest penetrator and rescue net.*

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4-50. The forest penetrator is a compact rescue device that has what approximate weight?

1. 10 1/2 pounds
2. 12 pounds
3. 21 1/2 pounds
4. 25 pounds

4-51. How long are the safety straps the forest penetrator?

1. 4 feet 9 1/4 inches
2. 5 feet 9 inches
3. 6 feet
4. 8 feet

4-52. With the flotation collar installed, how far above the surface of the water will the forest penetrator float?

1. 5 inches
2. 2 inches
3. 6 inches
4. 4 inches

4-53. The forest penetrator is designed to accommodate up to how many survivors at a time?

1. One
2. Two
3. Three
4. Four

4-54. All forest penetrators are subjected to a calendar inspection every

1. 60 days
2. 90 days
3. 181 days
4. 223 days

4-55. When you perform a calendar inspection on the forest penetrator, you must compare the markings on it and the markings on the flotation collar. What manual would you use to ensure they are the applicable markings?

1. NAVAIR 13-1-6.5
2. NAVAIR 13-1-6.7
2. NAVAIR 00-80T-101
4. NAVAIR NWP-19-1

4-56. How many pounds does the rescue net weigh?

1. 10 pounds
2. 20 pounds
3. 30 pounds
4. 37 pounds

4-57. How long is the sea anchor retaining line on the rescue net?

1. 10 feet
2. 12 feet
3. 15 feet
4. 20 feet

4-58. During moderate seas the sea anchor should be attached to the rescue net so that it will extend how far?

1. 20 feet.
2. 15 feet
3. 10 feet
4. 5 feet

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Learning Objective: *Conduct period inspections and test of rescue harnesses, rescue hooks, and cattle cutters.*

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- 4-59. A calendar inspection is performed on the rescue harness a minimum of how often?
1. Every 60 days
  2. Every 90 days
  3. Every 210 days
  4. Every 225 days
- 4-60. The service life of the rescue harness is 7 years from the date it was placed into service, but it is NOT to extend beyond what length of time from the date of fabrication?
1. 8 1/2 years
  2. 9 years
  3. 10 years
  4. 12 years
- 4-61. If a service date cannot be determined, the rescue harness must be removed from service what maximum number of years from the date of manufacture?
1. 5
  2. 7
  3. 8 1/2
  4. 10
- 4-62. When you clean the rescue harness, the water must not exceed what temperature?
1. 90°F
  2. 100°F
  3. 120°F
  4. 150°F
- 4-63. The large rescue hook will support how much weight?
1. 1,500 pounds
  2. 2,000 pounds
  3. 2,500 pounds
  4. 3,000 pounds
- 4-64. The smaller rescue hook supports what maximum weight?
1. 500 pounds
  2. 1,000 pounds
  3. 2,500 pounds
  4. 2,000 pounds
- 4-65. The ring will support what maximum weight?
1. 500 pounds
  2. 1,000 pounds
  3. 1,500 pounds
  4. 2,000 pounds
- 4-66. The hoist quick-splice plate is used under which of the following conditions?
1. When the hoist cable is cut or broken
  2. When time is a factor
  3. When no other means is available for rescue
  4. All of the above
- 4-67. The cable grip is an emergency condition device that is capable of supporting what maximum weight?
1. 1,000 pounds
  2. 1,500 pounds
  3. 2,000 pounds
  4. 2,500 pounds
- 4-68. The pneumatic rescue hand tool operates on a nitrogen gas cylinder with a pressure of
1. 1,000 psi
  2. 2,000 psi
  3. 3,000 psi
  4. 3,500 psi
- 4-69. The hand tool can cut stainless steel cable of what maximum diameter?
1. 1/8 inch
  2. 1/4 inch
  3. 5/8 inch
  4. 7/32 inch
- 4-70. To pass the trigger force test, the hand tool trigger force must be in what range?
1. 2 and 5 pounds
  2. 5 and 20 pounds
  3. 20 and 25 pounds
  4. 25 and 27 pounds
- 4-71. After clenaing the hand tool, you should lightly coat the cutting edge of the blade with what?
1. Light weight oil
  2. Bearing grease
  3. Pneumatic grease
  4. Heavy weight oil